

20010926.qrp v02_n324.qrl.20010926

Date: Wed, 26 Sep 2001 19:03:10 EDT
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2324

QRP-L Digest 2324

Topics covered in this issue include:

- 1) [107486] Re: FT-243 Xtals
by "Mike Branca" <w3irz@att.net>
- 2) [107487] Antennas for steel pole
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 3) [107488] Like NA5N says -- 10 is HOT!!
by "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
- 4) [107489] FW: CW Abbreviations [long]
by Ray Sills <raysills@1stconnect.com>
- 5) [107490] Re: Antennas for steel pole
by "George, W5YR" <w5yr@att.net>
- 6) [107491] Re: shorthand
by lhlousek <lhlousek@nvhbell.net>
- 7) [107492] STORM/AURORA 25-26 SEPT
by "Paul Harden, NA5N" <na5n@rt66.com>
- 8) [107493] Re: shorthand
by "Ingo, DK3RED" <dk3red@t-online.de>
- 9) [107494] Re: shorthand
by "Ingo, DK3RED" <dk3red@t-online.de>
- 10) [107495] EMTECH
by n4so@juno.com
- 11) [107496] FS: 3 Element Tribander / Rotor
by Ed Kessler <edkess@pa.net>
- 12) [107497] More on...not moron...shorthand
by FrConrad@aol.com
- 13) [107498] Re: FT-243 Xtals
by sigcom@juno.com
- 14) [107499] Re: More on...not moron...shorthand
by Mike <mmorrow@companet.net>
- 15) [107500] Re: More on...not moron...shorthand
by "George, W5YR" <w5yr@att.net>
- 16) [107501] Re: shorthand
by Dave Gingrich <gingrich2@dcg.org>
- 17) [107502] QRP Power Supply Recommendation
by Monty N5FC <n5fc@io.com>
- 18) [107503] Re: shorthand
by Steve Muncy <smuncy@mac.com>
- 19) [107504] Re: shorthand

- by Mike <mmorrow@companet.net>
- 20) [107505] Oscilloscope Recommendation?
by Robert Wright <rwright@soml.com>
- 21) [107506] Re: Shorthand / Re: FAQ What is "72" ?
by George Gingell <k3tks@u1.abs.net>
- 22) [107507] Re: FT-243 Crystals
by George Gingell <k3tks@u1.abs.net>
- 23) [107508] RE: More on...not moron...shorthand
by "Charles Mabbott" <crmabbott@mediaone.net>
- 24) [107509] Correction: Review- JHP Keyboard Keyer
by Bill Lazure <n2tpa@juno.com>
- 25) [107510] Q and Z signals - Pro words
by <baltimoremd@baltimoremd.com>
- 26) [107511] Re: Q and Z signals - Pro words
by Doug Bankston <dougbankston1@yahoo.com>
- 27) [107512] Re: More on...not moron...shorthand
by Steve Muncy <smuncy@mac.com>
- 28) [107513] QST Article-Your Novice Accent
by Steve Muncy <smuncy@mac.com>
- 29) [107514] Re: Oscilloscope Recommendation?
by "Leon Heller" <leon_heller@hotmail.com>
- 30) [107515] Re: FT-243 Xtals
by "Leon Heller" <leon_heller@hotmail.com>
- 31) [107516] RE: Oscilloscope Recommendation?
by Michael Melland <w9wis@charter.net>
- 32) [107517] Results New England QRP SSB NET
by "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
- 33) [107518] RE: Oscilloscope Recommendation?
by Jim Cotton <jim.cotton@wmich.edu>
- 34) [107519] FW: Aurora Alert -- geomagnetic storm in progress on Sept. 25, 2001
(corrected)
by "Ed Tanton" <n4xy@att.net>
- 35) [107520] HB Sprint Summary sheet?
by MertNellis@aol.com
- 36) [107521] FS: Computer (cheap)
by Larry East <w1hue@amsat.org>
- 37) [107522] FS: Complete FT-301 Station
by Larry East <w1hue@amsat.org>
- 38) [107523] QRP at Pacificon ???
by lhlousek <lhlousek@nvhbell.net>
- 39) [107524] Delaware QSLs
by W2AGN <w2agn@pobox.com>
- 40) [107525] Re: More on...not moron...shorthand
by William R Colbert <w5xe@juno.com>
- 41) [107526] Re: FT-243 Xtals
by Bruce Muscolino <w6toy@erols.com>
- 42) [107527] Re: More on...not moron...shorthand
by Bruce Muscolino <w6toy@erols.com>

- 43) [107528] Blue Sky Electronics?
by n2go@arrl.net
- 44) [107529] Re: Blue Sky Electronics?
by "Mike Malone" <mmalone@worldlogon.com>
- 45) [107530] Re: More on...not moron...shorthand
by lhlousek <lhlousek@nvhbell.net>
- 46) [107531] Re: Blue Sky Electronics?
by n2go@arrl.net
- 47) [107532] Computer Monitor Toroids??
by Michael Melland <w9wis@charter.net>
- 48) [107533] Re: QRP at Pacificon ???
by "Doug Hendricks" <ki6ds@dph.dpol.net>
- 49) [107534] Re: Shorthand
by "Delbert Long" <ad6we@hotmail.com>
- 50) [107535] Re: HB Sprint Summary sheet?
by Ken Newman <N2CQ@dandy.net>
- 51) [107536] Re: QST Article-Your Novice Accent
by "Jim Stamper" <jstamper@shentel.net>
- 52) [107537] Re: Shorthand
by "John Moriarity" <k6qq@hdo.net>
- 53) [107538] Re: Blue Sky Electronics is not BLUE SKY ENGINEERING
by "Mike Malone" <mmalone@worldlogon.com>
- 54) [107539] Re: Shorthand
by lhlousek <lhlousek@nvhbell.net>
- 55) [107540] Re: Blue Sky Electronics?
by "ZOOM" <kandrparker@sympatico.ca>
- 56) [107541] Re: Blue Sky Electronics?
by "Lee S. Mairs" <lmairs@cox.rr.com>
- 57) [107542] Re: Results New England QRP SSB NET
by Rick McNelly <rmcnelly@home.com>

Date: Tue, 25 Sep 2001 18:13:20 -0500
From: "Mike Branca" <w3irz@att.net>
To: <qrp-1@Lehigh.EDU>
Subject: [107486] Re: FT-243 Xtals
Message-ID: <089201c14617\$ab4c9700\$e90c4d0c@default>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Folks, don't let the recent post about the difficulty of finding active FT-243 crystals scare you. With my experience in picking up many hundreds of them I find that a rarity. Finding the needed frequency is the real problem. But grinding them is quite simple as all you need is a piece of glass about 3" X 3" and some bon ami cleanser. Directions are in the ARRL

handbooks in the '50s and you can usually pick one up for \$5 or less at most hamfests. Start a bit lower then grind it up to where you want it. For example for 40 meter CW pick up some 6975 or 7010 rocks and go from there. I have ground up probably 50 or 100 crystals and in the '70s I was grinding 6 Mc rocks up for the Motorola and GE FM radios that we used to use for the then new 2 meter repeaters.

With the right attitude it can be a pleasant homebrew activity.

Mike Branca W3IRZ in Conyers Georgia

Date: Tue, 25 Sep 2001 18:22:52 -0500
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: <themohrs@fuse.net>
Cc: <qrp-1@Lehigh.EDU>
Subject: [107487] Antennas for steel pole
Message-ID: <010701c14618\$ffd3baf0\$4e100a0a@rohredt2000>

Mark,
Just go to Radio Shack. Get the TV twin line standoffs, and attach to pole, run twin line to G5RV as an inverted Vee, or to a doublet and you are in business. A transmatch at the shack takes care of matching, you can run twin all the way. Second best dipole like length would be 88 feet center fed as above.

72,
Stuart K5KVH

Date: Tue, 25 Sep 2001 20:11:19 -0400
From: "John L. \"Jake\" Carter" <jakecart@ix.netcom.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [107488] Like NA5N says -- 10 is HOT!!
Message-ID: <GCECIJFJPOHMCKACOA0BGEMLCNAA.jakecart@ix.netcom.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit

10's hot -- worked 4X4WN today with 5 watts and the attic dipole -- got a 569 report.

Jake -- N4UY
Vienna, VA
(Wash, DC suburbs)

Date: Tue, 25 Sep 2001 20:14:59 -0400
From: Ray Sills <raysills@1stconnect.com>
To: QRP list <qrp-l@Lehigh.EDU>
Subject: [107489] FW: CW Abbreviations [long]
Message-ID: <B7D66A54.915A%raysills@1stConnect.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang:

With the recent thread about CW abbreviations, I stumbled across this old email originally sent by Chuck to the list:

73 de Ray
K2ULR
FN20t1

From: Chuck Adams <k7qo@primenet.com>
Reply-To: k7qo@primenet.com
Date: Mon, 13 Nov 2000 22:57:34 +0000
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: CW Abbreviations [long]

Someone asked and here is a list of probably the most used abbreviations in CW. It is not complete by any means. Enjoy.

CW Abbreviations de K7QO

AA	all after	GM	good morning	QKY	quickly
AB	about	GN	gone	QT	quite
ABB	abbreviate	GNI	good night	QTN	quotation
ABBD	abbreviated	GP	group	QTY	quantity
ABBG	abbreviating	GS	guess	QSN	question
ABBN	abbreviation	GT	great	R	are
ABD	aboard	GV	give	R	roger

ABS	absent	GVT	government	RCD	received
ABV	above	H	has	RCV	receive
ACG	according	HAP	happy	RCR	receiver
ADR	address	HB	have been	RD	read
ADS	address	HP	hope	RDY	ready
AF	after	HPN	happen	RFU	refuse
AFN	afternoon	HR	here	RG	regular
AGN	again	HV	have	RHT	right
AK	acknowledge	HVR	however	RJ	reject
ALW	always	HVU	have you	RKO	record
AMT	amount	IFN	information	RMB	remember
AO	at once	IM	immediately	RPY	reply
APC	appreciate	IN	indication	RR	railroad
AR	answer	IMY	immensely	RT	are the
AVB	available	IMT	immediate	RU	are you
AY	any	IP	improve	RY	railway
AYB	anybody	ITD	intend	SAT	saturday
AYG	anything	IW	it was	SD	should
AX	ask	J	by which	SDY	sunday
B	be	JF	justify	SH	such
BC	because	JGM	judgement	SIG	signature
BCNU	be seeing you	JN	join	SJ	subject
BD	board	JR	junior	SKJ	schedule
BF	before	JT	just	SM	some
BFL	beautiful	K	out of the	SMG	something
BFT	breakfast	KD	kind	SND	send
BH	both	KGNS	congratulations	SPO	suppose
BK	break	KMN	communication	SPZ	surprise
BKN	broken	KP	keep	STD	standard
BLDG	building	KPPG	cooperating	STN	station
BN	been	KU	continue	STO	store
BS	best	KW	know	SUGN	suggestion
BTN	between	LAF	laugh	SUY	saturday
BTR	better	LG	long	SVC	service
BUN	bulletin	LIC	license	SVL	several
BV	believe	LK	like	SYS	system
BZ	business	LOV	love	T	the
C	see	LTR	letter	TBL	trouble
C	yes	LUK	look	TDY	today
CA	came	LV	leave	TFK	traffic
CD	could	LVG	leaving	TG	thing
CDRY	considerably	M	more	TGR	together
CDX	condition	MAB	maybe	THD	thursday
CF	chief	MB	maybe	TI	time
CFM	confirm	MD	made	TM	them
CFUD	confused	MDA	monday	TMP	temperature
CHC	chance	MFG	manufacturing	TN	then
CHG	charge	MH	much	TND	thousand

CHN	children	MK	make	TNI	tonight
CLD	called	MMY	memory	TNK	think
CLDY	cloudy	MNG	morning	TR	there
CLR	clear	MO	month	TS	this
CK	check	MS	most	TSE	these
CM	come	MSJ	message	TT	that
CNCD	concerned	MSK	mistake	TU	thank you
CNDS	conditions	MST	must	TUY	tuesday
CTD	connected	MSY	mostly	TW	tomorrow
CPI	copy	MTG	meeting	TWM	tomorrow mornin
CPT	complete	MTR	matter	TWV	tmw even
CQY	correctly	MVG	moving	TX	this is
CY	copy	MVM	movement	TY	they
D	in the	N	not	U	you
DA	day	NA	name	UCN	uncertain
DAU	daughter	NBR	neighbor	UF	unfortunate
DD	did	ND	need	UFBY	unfavorably
DDNT	did not	NI	night	UK	understand
DE	from	NIL	nothing	UKN	unknown
DEG	degree	NR	near	ULY	usually
DFC	difference	NTG	nothing	UN	until
DFT	different	NUM	number	UPN	upon
DG	doing	NUMD	numbered	UR	your
DLD	delivered	NUP	newspaper	V	of which
DNR	dinner	NV	never	VB	valuable
DOLS	dollars	NW	now	VCY	vicinity
DT	dont	NX	next	VET	veteran
EA	each	O	of	VKN	vacation
EH	either	OFN	often	VOL	volume
EJO	enjoy	OFFS	office	VS	visible
ENH	enough	OFY	officially	VSR	visitor
EQM	equipment	OFC	officer	VST	visit
ES	and	OG	organize	VU	view
ESPY	especially	OJ	object	VY	very
EU	Europe	OP	opportunity	VYG	voyage
EV	ever	OPR	operator	W	with
EXA	extra	OTH	other	WB	will be
EXK	expect	OV	over	WDA	wednesday
EXQ	excuse	OWG	owing	WD	would
EYB	everybody	OWZ	otherwise	WDF	wonderful
EYG	everything	P	per	WEA	weather
F	of the	PAP	paper	WF	wife
FER	for	PB	probable	WG	wrong
FM	from	PBM	problem	WGT	weight
FO	for	PBY	probably	WH	which
FQ	frequent	PC	percent	WI	will
FRI	friday	PD	paid	WK	week
FRV	forever	PFD	preferred	WL	well

FRW	forward	PFT	perfect	WLD	world
FS	first	PKJ	package	WN	when
FU	few	PLS	please	WO	who
FW	follow	PLSR	pleasure	WRD	word
G	from the	POX	police	WT	what
GA	good afternoon	PSK	prospect	WTV	whatever
GA	gave	PW	power	X	in which
GD	good	Q	on the	XJ	explain
GG	going	QA	qualify	Y	year
GL	good luck	QAY	quality	YA	yesterday
GLS	girls	QK	quick	Z	from which

Chuck Adams, K7QO Prescott, AZ

Date: Tue, 25 Sep 2001 19:19:10 -0500
 From: "George, W5YR" <w5yr@att.net>
 To: rohre@arlut.utexas.edu
 Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
 Subject: [107490] Re: Antennas for steel pole
 Message-ID: <3BB11EFE.AF3A7FEA@att.net>
 MIME-Version: 1.0
 Content-Type: text/plain; charset=us-ascii
 Content-Transfer-Encoding: 7bit

I also use a steel pole to support the centers of two 20-meter EDZ antennas, each 88 ft long. I simply pull the ladderline to one side and secure it to the edge of the roof to keep it away from the pole.

I would argue that the 88 ft antenna will outperform the G5RV on 20 meters since it provides 3 db gain which the 1.5 wavelength G5RV cannot. I use two of the EDZs mounted at right angles. They work well on 80-10. Feed is ladderline to W2DU balun to coax to tuner.

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
 Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
 Amateur Radio W5YR, in the 56th year and it just keeps getting better!
 Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Stuart Rohre wrote:

>
 > Mark,
 > Just go to Radio Shack. Get the TV twin line standoffs, and attach to pole,

> run twin line to G5RV as an inverted Vee, or to a doublet and you are in
> business. A transmatch at the shack takes care of matching, you can run
> twin all the way. Second best dipole like length would be 88 feet center
> fed as above.

Date: Tue, 25 Sep 2001 17:26:40 -0700
From: lhlousek <lhlousek@nvhbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [107491] Re: shorthand
Message-ID: <002801c14621\$e9ad5340\$650dfea9@nvhbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

<<<While there is some good info here there are some things there that I don't
think are all that good nor are they good as a learning guide.>>>

He also advocates things like "MY QTH IS" and "UR RST IS" where MY and IS really
don't add anything.

Some ops might send something like:

(running characters and words together) UR RST IS 539 539 OM WID SUM QSB HR AT
MY QTH IN RENO, NV ? RENO, NV ES MY NAME IS LOU ? LOU [BT] SO HW CPY? ES BK TO U
[AR] U2XYZ DE W7DZN [KN]

rather than leaving out superfluous words and punctuation to convey the same
info more tersely:

(sending deliberately) RST 539 539 QSB QTH RENO NV RENO NV OP LOU LOU BK

I'll operate somewhere between those two extremes depending on the situation,
the style of the other op, how I feel at the moment and the number of beers
consumed. HI!

Lou W7DZN

Date: Tue, 25 Sep 2001 18:34:54 -0600 (MDT)
From: "Paul Harden, NA5N" <na5n@rt66.com>
To: qrp-canada@neale.gpfn.sk.ca, qrp-1@lehigh.edu
Cc: nmqrp@yahooogroups.com,
"Prof. Arnaldo Coro Antich" <inforhc@ip.etcasa.cu>
Subject: [107492] STORM/AURORA 25-26 SEPT

Message-ID: <Pine.SUN.4.10.10109251801580.3672-1000000@shell.rt66.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Gang,

I know there are new members on QRP-L, QRP-Canada, etc. that have missed some of these solar tutorials over the past couple of years, so this is intended primarily for them.

There was a major X-class flare yesterday on the sun. For the duration of this flare, speed of light energy (x-rays and protons) were fired at the earth. This caused poor HF conditions for several hours, but also ionized the E and F layers for good skip propagation -- the situation that exists right now. 10M is wide open during daylight hours right now.

The flare also spews out gobs of solar mass that travels outward from the sun at 800-1200 km/sec. When it hits the earth about 2 days later, it triggers a geomagnetic storm. The shockwave from yesterdays flare hit us today, about 30 hours after the flare, or cooking along quite well. This is like a big blast of wind that hits our magnetic field, makes it wiggle to generate huge electrical currents. Those currents also make large noise bursts on 10-15MHz and below. This enhanced noise on the lower bands will persist for a couple of days, wednesday being the worse.

This wiggling of our magnetic field, plus the protons from the sun being pumped into the solar regions, also produces aurora, or the northern lights. So there is a good chance of seeing aurora tonight in the northern US. The extent of aurora is always difficult to predict and often surprises observers. So even if you live in the middle US latitudes, it would be worth taking a look northward tonight around 10pm to midnite.

Below is portions of todays RSGA report from NOAA, annotated for those interested in the interpretation.

SUMMARY: The HIGHER bands are in GREAT shape. The LOWER bands will be experiencing signal loss and enhanced noise. But nothing so severe to stop QRPers from getting on the air.

72, Paul NA5N

On Tue, 25 Sep 2001, Space Environment Center wrote:

- > Joint USAF/NOAA Report of Solar and Geophysical Activity
- > SDF Number 268 Issued at 2200Z on 25 Sep 2001
- > IA. Analysis of Solar Active Regions and Activity from 24/2100Z
- > to 25/2100Z: Solar activity was high. Region 9628 (S18W14) produced
- > an M7/1n with associated Type II sweep at 0440 UTC.

A Type II sweep are radio emissions starting around 300MHz and sweeping downward into the HF spectrum, caused by the shockwave of the flare punching through the sun's magnetic field lines. Astronomers use this information to calculate the approximate speed of the departing shockwave. To us other earthlings, it tells us a shockwave is on the way. This one was not as energetic as the X-class flare monday, and will probably hit the earth thursday to trigger a minor geomagnetic storm.

> In addition, the region also generated an M2/1n with Type II at 1027 UTC

Ditto. This flare also produced a shockwave. Since both these flares are near the center of the sun, both shockwaves will contact earth in a couple of days.

> IB. Solar Activity Forecast: Solar activity is expected to be
> moderate to high. Both Regions 9628 and 9632 retain the potential
> for additional M-class activity, and a possible isolated X-class
> event.

A major flare from these two regions WILL impact earth ... first, HF degradation will occur DURING the flare, and the lower HF frequencies will experience poor conditions two days later when the shockwave arrives.

> IIA. Geophysical Activity Summary 24/2100Z to 25/2100Z:
> The geomagnetic field was quiet until the end of the interval. A
> shock, presumably related to the flare/CME of 24/1038 UTC, passed
> ACE at approximately 2003 UTC.
> The field is now at active

Note that this report, issued at the end of the UTC, is only about 2 hours after the shockwave hit, and insufficient time for the 3-hour K index measurements to be made. Thus, only ACTIVE conditions were measured. Since this report was issued, the K indices of 5 and 6 are being measured across the globe for minor-major storm conditions.

> The proton events at greater than 10 and 100 MeV continue.

The >10 and >100MeV protons are the energetic proton emissions from the sun. These are striking the earth at near the speed of light, and thus remain as enhanced ionizing radiation. This is good in that it is ionizing the E and F layer for very reflective layers and a high MUF. Good daylight DX propagation exists right now and tomorrow (at least) on 20-10M.

BUT ... is IS also wiping out our VE friends, as up north, these protons are also ionizing the D-layer, producing a near HF blackout for them. This will continue another couple of days for them. Ditto for the

extreme southern hemisphere, like southern Australia, etc. This phenomenon is called a "Polar Cap Absorption Event."

> The Polar Cap Absorption event remains in progress.

See?

> IIB. Geophysical Activity Forecast: The geomagnetic field is
> expected to be at major storm levels during the next 24-36 hours,
> due to the effects of a shock/cme related to the X2/2b flare of
> 24/1038 UTC. The storm should persist through 27 September. The
> current proton events are expected to continue for at least the next
> 24 hours.

The shockwave hit the earth a few hours ago, triggering a geomagnetic storm. However, as we approach night fall in North America, our part of the earth turns away from the sun, and hence the solar wind, and storm conditions will subside. 40-80M will be extra noisy tonight, but not useless. BUT ... tomorrow at sunrise, North America will rotate again into the high solar wind and the storm will elevate to major storm levels. Thus, the worse conditions will be on the sunlit side of the planet. This is why NOAA is forecasting MAJOR storming tomorrow ... as "the earth turns" back into the solar wind stream.

At 0000UTC 26 SEP, the ESTIMATED A-index is already at 80, or major storm conditions.

> PCAF in progress

As discussed above. Pretty lousy conditions above/below about 50 degrees latitude, and creeping southward/northward.

> IV. Penticton 10.7 cm Flux
> Observed 25 Sep 275

Don't miss this opportunity to experience a solar flux of 275 on 10M during daylight hours or greyline (as the sun begins to set). The MUF and E/F layer reflectivity maps show excellent reflectivity right now with little path loss. This is the perfect condition for working QRP DX. This condition will persist for several days, and will NOT be heavily bothered by the geomagnetic storm bothering the lower bands.

> 90 Day Mean 25 Sep 169

The average solar flux has been 169 for the past 3 months, so to say our current flux of 275 is an aberration is an understatement. Enjoy it!!!

> V. Geomagnetic A Indices

> Observed Afr/Ap 24 Sep 005/006
> Estimated Afr/Ap 25 Sep 010/012
> Predicted Afr/Ap 26 Sep-28 Sep 080/100-040/040-015/015
 ^^^^^^^^ ^^^^^^^ ^^^^^^^
 WED THURS FRIDAY

Predicted: MAJOR storm tomorrow/wednesday, subsiding to minor storming on thursday, and virtually gone by friday. Again, this effects only the lower ham bands, not 20M and above. 30M is in the transition zone, and I would suspect DX signals on 30M would be quite nice tonite and tomorrow nite, but kinda poor tomorrow during the day.

72, Paul NA5N

Date: Wed, 26 Sep 2001 02:36:09 +0200
From: "Ingo, DK3RED" <dk3red@t-online.de>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [107493] Re: shorthand
Message-ID: <3BB122F9.D7789503@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Lou,

> I haven't run into CFM very often. What about the use of prosign SN? I hear it
> bandied about quite a bit in various places in QSOs often used as "ers" between
> thoughts. It means "understood" but I find that many Morse references don't
> list it. I like the sound and feel of it and use it instead of R to convey
> something more of a sense of agreement or fellowship... sort of like "I hear
> you, man (or brother)..." rather than simply "received".

Yes, this is right. "SN" or "VE" given as one word without space between the letters means "understood". You can give a "R" or "CFM" or "SN" as first group. CW is a language like other ones and a language lives (is not a static thing).

--

72/73 de Ingo, DK3RED (Don't forget: the fun is the power !)

eMail: dk3red@qsl.net - homepage: www.qsl.net/dk3red

Date: Wed, 26 Sep 2001 02:35:50 +0200
From: "Ingo, DK3RED" <dk3red@t-online.de>
To: QRP-L <qrp-l@lehigh.edu>
Subject: [107494] Re: shorthand
Message-ID: <3BB122E6.190F8285@t-online.de>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Hello Rob,

> Does anyone know of a webpage that shows the proper CW sending format?

www.t-online.de/~dk3red/en/cw.htm#aufbau

--

72/73 de Ingo, DK3RED (Don't forget: the fun is the power !)

eMail: dk3red@qsl.net - homepage: www.qsl.net/dk3red

Date: Tue, 25 Sep 2001 16:16:00 -0500
From: n4so@juno.com
To: qrp-l@lehigh.edu
Subject: [107495] EMTECH
Message-ID: <20010925.195052.10670.12.N4SO@juno.com>

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Scott Gregson KC7MAS

360-405-6805

E-MAIL emtech@steadynet.com

<http://emtech.steadynet.com>

Ken Brown-N4S0
Mobile, AL EM50tk
NorCal-20 at 5 watts/4 ele. yagi
Keylite Kit keyer

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 25 Sep 2001 22:20:31 -0400
From: Ed Kessler <edkess@pa.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Cc: "Eastern PA QRP Club" <epaqrp-l@Lehigh.EDU>
Subject: [107496] FS: 3 Element Tribander / Rotor
Message-ID: <5.0.2.1.0.20010925221401.00a36c20@mail.pa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

This is a post for a widow of a ham who is now an SK. She is in the process of moving and needs to sell his ham gear.

For sale:

Cushcraft A3 Tribander
Ham 4 Rotor and Control Box
About 60' of coax and rotor cable.
All in very good condition. We have disassembled everything, marking every piece so it should be fairly easy to re-assemble.

\$250 for everything. This is a great deal! However, it will need to be picked up in the central Pennsylvania area.

There are also 5 segments of tower that are in very good condition. I don't know the price on the tower, but I'm sure it will be very reasonable.

73
Ed AA3SJ

Date: Tue, 25 Sep 2001 22:23:12 EDT
From: FrConrad@aol.com

To: qrp-1@lehigh.edu
Subject: [107497] More on...not moron...shorthand
Message-ID: <b8.1be77c16.28e29610@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

To all,

I think we ought to walk very softly when changing long-established CW prosigns. My fear is that it will tend to take a dwindling hobby which is rather elitist and exclusive, and make it even more so. It is problem when newcomers are not hearing on the bands the prosigns they see in the books. It also tends to put off those who might venture into contesting and Net Ops if they could just figure out what was going on.

The relative benefit of TU as opposed to K or KN eludes me. Sometimes I think we make this new jargon up to identify ourselves as those "in the know." Certainly, the church does a bunch of that. CW indeed is a living language, but there are all kinds of living. This morning I heard a teenager say, "Dude! I like slammed this awesome fakey 360 shove-it."

AR de WB6MFS K

Date: Tue, 25 Sep 2001 19:52:10 -0700
From: sigcom@juno.com
To: w5yr@att.net
Cc: qrp-1@Lehigh.EDU
Subject: [107498] Re: FT-243 Xtals
Message-ID: <20010925.201150.-1640593.2.sigcom@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

George,

> I used to flinch when I had to pay \$4.50 each
> Bliley AX-2 crystals retailed for \$2.80 in 1946

\$4.50 in 1967 would cost approx. \$23.07 today.
\$2.80 in 1946 would cost approx. \$25.89 today :-).

So maybe that JAN Crystals price isn't too far off the mark!

Every time the price of FT-243 crystals comes up it reminds me of when I was a Novice and I'd con my dad into driving me down to J.J. Glass

electronic surplus in Los Angeles. They had two big bins in the center of the store just heaped with mostly FT-243s and a smattering of other types. They cost fifty cents or 3 for a buck or something like that. Whatever it was, it was cheap. I would spend hours digging through the pile picking out the gems until dad pulled me by the arm toward the counter. I loved that place.

An OT Ham who lived next door to me back then told me about in the early '50s how he and his Ham buddies would all go down to J.J. about once a month and each one would buy a "suprise box". Then they'd drive home but on the way they would stop at the top of Conejo Grade, a long hill east of here. They'd stop at the top of the grade, open their boxes and horse trade the goodies. Whatever none of them wanted would get dumped over the side. Hmmm.....wonder where that spot is? HA!

73.....Steve 'The Scrounger' Smith
WB6TNL Oxnard, CA USA
"snort rosin"

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<http://dl.www.juno.com/get/tagj>.

Date: Tue, 25 Sep 2001 22:24:06 -0500
From: Mike <mmorrow@companet.net>
To: FrConrad@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [107499] Re: More on...not moron...shorthand
Message-ID: <3BB14A56.54F6@companet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

FrConrad@aol.com wrote:

> The relative benefit of TU as opposed to K or KN eludes me.

TU (thank you) has a very very long tradition of use in commercial CW operations, and nearly as long in ham operations. It means the same thing as the ham TKS or TNX, but it is much more "snappy." Its use is not related to the "over" prosigns K or KN.

I will add my vote against the new-age operating habit of not using the DE prosign.

I also question the ham use of SK stacked on AR stacked on CL stacked on "dit dit" and so on. I prefer the simple military CW usage of K for "over" (end of transmission, expecting a reply) or AR for "out" (end of transmission, no reply expected). Why would one need to end any CW transmission with something other than K or AR?

As far as "72" vs "73" goes, I've always though "72" was just a little too "cute."

Part of the real joy of CW to me is in using traditional CW operating practices, especially if they are based on professional (military or commercial) usage. With the professional use of CW now all but dead, it would be a shame to not preserve at least some CW as was practised by this honorable but now extinct profession in the only service that continues to use CW (the hams).

73,
Mike / KK5F

Date: Tue, 25 Sep 2001 22:35:32 -0500
From: "George, W5YR" <w5yr@att.net>
To: FrConrad@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [107500] Re: More on...not moron...shorthand
Message-ID: <3BB14D04.5BE17C2B@att.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

FrConrad@aol.com wrote:

> The relative benefit of TU as opposed to K or KN eludes me.

It eludes me, too! I cannot see any relevance between "TU" and "K" or "KN"

What am I missing here? <:}

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Date: Tue, 25 Sep 2001 22:55:11 -0500
From: Dave Gingrich <gingrich2@dcg.org>
To: qrp-l@Lehigh.EDU
Subject: [107501] Re: shorthand
Message-ID: <5.1.0.14.2.20010925225442.01cec0f8@172.22.1.1>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

At 09:57 9/25/2001 -0500, Mike wrote:

>On other CW shorthand matters, I don't see a lot of value in the ham
>prosign KN, but that's because I learned KN as an open parenthesis while
>copying Navy hydrolant/navarea bulletins on 8080 kHz 25 years ago.

Was there ever a morse character for @ as in an e-mail address?
(other than .- - of course)

=====
Dave Gingrich, K9DC
Indianapolis, Indiana
Dave@dcg.org
=====

Date: Tue, 25 Sep 2001 23:09:39 -0500
From: Monty N5FC <n5fc@io.com>
To: AQRPE@groups.com, qrp-l@Lehigh.edu, dave.howard@baesystems.com
Subject: [107502] QRP Power Supply Recommendation
Message-ID: <5.1.0.14.1.20010925223718.00a65c50@mail.io.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Hey Gang!

I'm not inclined to get spun up very often, but I recently ran across a couple of good values that I thought the QRP community would want to know about.

The first is a perfect QRP bench supply. I reserved judgment until I had a chance to evaluate it, but now that I know what a bargain it is (at \$16.95), I'll let all of you have at it:

Go to <http://www.mcmelectronics.com/> and do a search on part number 28-2200

Don't be fooled by the word "switchable" into thinking this is a switching power supply (with all the attendant RFI). Although it's nearly as compact

as one, it's a linear-regulated supply (using an LM317) with a good heavy transformer and internally mounted heatsink. Rated at 2 Amps output, you can dial up from 3 to 12 Volts well-regulated output, in 1.5 Volt steps, using a front panel rotary switch. Two good-quality binding posts on the front panel, for making connections via wire or banana plugs. I measured the output while operating my TenTec 1340 (which draws about 800 mA during transmit, and outputs about 4 Watts. With 12.20 V at 35 mA load, and 12.22 at 800 mA load, I felt regulation was pretty good. Output ripple was 2.1 mV and 2.9 mV, no load and loaded, respectively. I could hear no hum whatsoever in the receiver.

By the way, a quick look inside reveals that the voltage settings are set by resistors, and would be easy to modify, should you want 13.5 volts instead of 12 Volts (although you may not get a full 2 A at the higher voltages), or 5 Volts instead of 4.5. Because of it's compact size and switchable outputs, this makes an ideal supply for the homebrewing QRPer.

Not sure what its short-circuit performance will be (and sorry, I refuse to test it the only way I know how ;-)

Secondly, MCM also has 2SC2166 RF Power Transistors for \$1.53/ea... a GREAT price (the 2SC2166 is a 6 Watt emitter-ballasted HF NPN power transistor, in a TO-220 package, suitable for linear or Class C operation with excellent VSWR survivability) Find the data sheet at:
<http://www.mitsubishichips.com/data/datasheets/hf-optic/hf-opticpdf/ds/sc2166.pdf>

Have at it! (and I have no connection to MCM electronics except that I'm a satisfied customer)

72,
monty N5FC

Monty Northrup, N5FC
Austin, Texas
e-mail: n5fc@io.com
web page (ham radio): <http://www.io.com/~n5fc>
web page (home): <http://www.io.com/~maddog>

Date: Tue, 25 Sep 2001 23:22:54 -0500
From: Steve Muncy <smuncy@mac.com>
To: mswmod@bigplanet.com
Cc: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [107503] Re: shorthand

Message-ID: <200109260422.f8Q4MQC00366@robin.mail.pas.earthlink.net>
Content-Type: text/plain;
format=flowed;
charset=us-ascii
Mime-Version: 1.0 (Apple Message framework v388)
Content-Transfer-Encoding: 7bit

On Tuesday, September 25, 2001, at 02:10 PM, Ron KU7Y wrote:

> CQ CQ CQ KU7Y KU7Y K
>
> is there really any difference? I sure don't see it. I'm calling CQ.
> That
> means that there is no other station involved yet. So sending DE is
> redundant IMHO. Why send things that do nothing to improve the ability
> of
> the string to convey information? If you rely on something like the DE
> to
> let you know to "expect" a call sign, maybe you need more practice! :-)
> I'd suggest one of those little MFJ CW sending things that you can
> carry in
> your pocket and listen to while making it look like you are
> working.....
>

There is a HUGE difference for me. I'm a reasonably competent CW op and have been a ham for 35 years. In that time I've learned that easily understandable abbreviations can really contribute to a QSO -- but deviating radically from commonly used procedures detracts from it. I had the misfortune to hear a foreign station calling what I think was CQ -- but he was running his characters together so badly and not using the "de" separator that I spent WAY TOO MUCH time trying to decipher it. I decided that I didn't want to work someone like that....

> After all, I could send CQ like this if I wanted to:
>
> CQ I AM 65 YEARS OLD AND WANT TO TALK TO YOU BECAUSE I DO NOT HAVE ANY
> THING
> ELSE GOING ON RIGHT NOW. PLEASE RESPOND TO MY PLEA. DE KU7Y
>

Yes, you COULD call CQ that way -- you have a right to....but I wouldn't respond and I suspect that you would lose many other potential contacts too. You also have a right to call CQ in CW on 7295, but you aren't going to get many takers.... ;-) You could also send using CW "calling any station, calling any station, this is Ron KU7Y, over." You won't get many takers on that one either. When you deviate from long-held and

widely understood procedures, you detract from effective communication and lose potential contacts. Although I'm not currently involved in CW traffic handling, I spent a number of years in which that consumed the majority of my radio time. If you have ever handled CW traffic, (or SSB traffic for that matter), you will know that procedures are absolutely, positively critical!!!

I should point out that a dear friend and mentor -- now a silent key -- had one of the worst swings on a bug I have ever heard. The man didn't even own a microphone and had practiced CW exclusively since the 40's. If his cw procedure weren't so predictable, I don't think I could have copied him well at all....perhaps other more competent ops could have deciphered his cw, but I had to have the help of the procedures! ;-)

This has been a very interesting thread.....I'll crawl back in my hole now.

Steve Muncy, NI5V <mailto:ni5v@arrl.net>
Dalllas, TX USA <http://homepage.mac.com/smuncy/hamradio/
QRP-ARCI #10330 QRP-L #2191 FISTS #7412 QCWA #30705
ARRL Life Member

Date: Tue, 25 Sep 2001 23:24:51 -0500
From: Mike <mmorrow@companet.net>
To: Dave Gingrich <Dave@dcg.org>
Cc: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [107504] Re: shorthand
Message-ID: <3BB15893.5EBA@companet.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Dave Gingrich wrote:

> Was there ever a morse character for @ as in an e-mail address?
> (other than .- - of course)

I don't know, and I don't have my old reference and study manuals handy to know if there was anything official for the "@" character. I never learned one or ever encountered it. I learned Morse for:

. , ? () ' : ; = -

when I was preparing for my US Second Class Radiotelegraph license 25 years ago. The FCC test only used . , ? if I recall correctly, but I did often hear most of the other punctuation used on the Navy hydrolant/navarea navigation hazard bulletins, and on the nightly

news/stocks/sports broadcasts from the coast station WCC (which sent the news using complete English words, no CW operator abbreviations). Army MARS even used some of the stranger punctuation on their CW bulletins, and ones like the apostrophe would tend to throw people for a loop. I figure someone at Army MARS HQ had just typed text into a computer without thinking about leaving out the bizarre characters that few would recognize.

It's now hard to believe that all that has disappeared in only the last 10 to 20 years, and that the last commercial CW operation in the US finally died on 12 July 1999. Even the US MARS systems have *banned* CW!

73,
Mike / KK5F

Date: Tue, 25 Sep 2001 21:49:50 -0700
From: Robert Wright <rwright@soml.com>
To: qrp-l@Lehigh.EDU
Subject: [107505] Oscilloscope Recommendation?
Message-ID: <200109260446.f8Q4kr211930@buzz.sonic.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Dear QRP-L Gang,

As I build more QRP stuff and now just starting K2 #2276, I have been thinking about adding an oscilloscope to my basic test equipment (now including the fabulous Stinger Singer). Does anyone on the list have a recommendation for a good scope for ham use? If used, any suggestions as to where to look for one on the web? I searched a few spots and found some scopes that cost more than my car.

After reading Paul NA5N's excellent series on their use, it sure would be nice to have a small unit for general rig troubleshooting. Am I asking too much for a "good" or "small" scope followed by "does not cost an arm and a leg?" With the proliferation of microprocessor controlled devices, it strikes me that oscilloscopes in general should be getting cheaper not more expensive, but that does not seem to be the case. Any help appreciated.

Greatly enjoying the SW-30 Plus from SWL and now, am in awe of the instruction manual for the K2 and the wealth of support for all Elecraft products. SImply magnificent.

VY 73,
Bob K7RRW

Santa Rosa, Ca
Norcal #201

Date: Wed, 26 Sep 2001 02:03:12 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [107506] Re: Shorthand / Re: FAQ What is "72" ?
Message-ID: <Pine.BSF.4.33.0109260133150.86557-100000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I have been noticing a few remarks about the use of "72" as a QRP "73" here on qrp-l. Maybe it is time for an addition to QRP FAQ.

I have done a bit of research on the item quite some time ago.

The Credit for it's Origin belongs to Oleg Borodin, RV3GM.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Here are a few references and comments related to "72" and its Origin.

SPRAT #68 Autumn 1991- "72 es 73 OM" Guest Editorial by Gus, G8PG
"Some months ago the U QRP Club suggests" "72" meaning "Wishing you Good QRP" G-QRP polled worldwide clubs agreed 100% to adopt it.

Mentioned again Page 30 & P31 2w qrp mbrs 60=RV3GM.

SPRAT #69 Winter 91/92 Page 2 Reverand Dobbs Used it for first time in SPRAT. (72/73 George). P31. Kanganski Radio (RV3GM).

Page 37 G3KJX QRV Portugal Oct. "72" being used by many stations, last contact was K3TKS, 559 both ways.

QRP Quarterly October 1991 Page 2. "72" Wishing you Good QRP
BOD Approves "72" suggested by U-QRP Club.
OK QRP,DL-AGCW,VK QRP CW Club, G-QRP Club all Support its use.

We also had a "Wishing you 72 Good QRP" BUTTON at Dayton that Year.

I got the button somewhere downstairs.

Also the New England QRP Club Began their Club Newsletter "72" in Mar/Apr 1992.

NE QRP Dec 1991 W1FMR President.
72, John Collins KN1H Editor for NE Club.
Their Application 72 & QRP DX!

I used QRP DX TU, (C) 1986

I added the prefix 72 ES to it in 1991.

I may have missed a few details, as the notes are a bit fuzzy now, but
there are enough facts to satisfy the curious.

Sir George, The First :^}

72 ES
QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Commercial Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Wed, 26 Sep 2001 03:36:44 -0400 (EDT)
From: George Gingell <k3tks@u1.abs.net>
To: QRP List <qrp-l@Lehigh.EDU>
Subject: [107507] Re: FT-243 Crystals
Message-ID: <Pine.BSF.4.33.0109260203180.86557-1000000@u1.abs.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

This looks like another FAQ type of question.

Sorry, I do not know of a good current source at what we would call reasonable prices.

I personally Have all that I will ever need in my shack. Collecting Crystals has been one of my Personal Sideline Hobbies associated with QRP.

I really should try to Organize them some day. Most are Military Surplus from the USA, but I do have a few rather unique ones that were Sent as Gifts from DX Friends. Some from Russia are particularly interesting.

One Would make wonderful plug in coils for a GDO. They almost look like the Old National Bakelite Plug in Coils.

The Ones in Glass Envelopes are keen also. One in a 7 Pin Minature Tube Socket.

I also seem to recall a Glass Enclosed one from USA that had a wonderful Violet Glow to it when in operation. Rather like those Old Mercury Vapor Tubes in our old Telco Power Supply Units. Magic EYE Tubes were also a favorite of mine as well. We had a big Console Radio in the basement when I was a teenager. Zenith, I think, I recall it having SW Bands on it.

I nearly wore it out SWLing for DX and SOS from Marine Stations. Believe it or not, I actually heard one once. Think he was in Carribean. Oh Yes, and Lots of VOA & BBC. Also SWL DXing on VHF TV with a rebuilt Motorola 14" BW Set. It was the best darn TV EVER. (After I rebuilt it).

I had a whole basement full of Orphan TV's back then. (50's)

Sorry, about that.. :^} I forgot I was supposed to be discussing "QUARTZ Collecting".

The last major purchase of FT-243 Crystals was from John Morris, N0ACS of CW-Crystals and Later Phoenix Products. I think I got a couple of hundred dollars worth from John. John was a one man company. He Reground the FT-243 to Custom Frequencies. All the proper machinery and skills.

Unfortunately for us, John became a Silent Key a few years back. I recall hearing that someone was buying his company and stock. It might have been JAN Crystals, I do not know for sure. John was located in Nevada, MO.

As I recall most of his rocks ran \$ 4.50 at the time. I also had a note here on the computer about a "Rock Swap Board". I don't knnow if it is still good info or not. It was passed on to me by David Ackrill, G0DJJA quite some time back. Try <<http://senac.com/boards/880/>>

Here are a couple of other thoughts:

Remove the Quartz from an FT-243 and add a current limiting resistor or small lamp in place of the Quartz, then using The Pins from a Dip Socket make it into a holder for HC-49 Rocks. The FT-243 Types with the Bakelite cover plates work better than the Metal Cover Plates for this application. I used one to make an adapter for testing small crystals.

Another Idea is to Build a Simple Osc and Buffer Amp into the FT-243 Holder and use it to feed your Osc Ckt. How about an SMD VFO in an FT-243?

Speaking of That, Some of the Older Military Crystals from WWII were large enough to hold a whole QRP Rig. I forget the type off hand, but they were used in the BC-610 Transmitter. NEVER WORK ON THAT BABY With the Cover Off!! I almost lost a man to that. Wearing Spidel Twist-o-flex and with the interlock defeated. Needless to say He Wears the "BRAND" for life!

Last but not least, Grab up a bag of those Old FT-243's at the next hamfest. Get your self a piece of Plate Glass and a tube of Plain Toothpaste, or Ajax Cleanser and Try your hand at "Quartz Polishing"

If you get them cheap enough, you have nothing to lose. Don't expect large Movement. Don't get too near the band edges either. Clean the Quartz reall good with plain cold water after each grinding, Followed by Alcohol bath. Disposable Plastic gloves are good. You don't want Finger Grease on the Quartz. I said Grinding, but that is technically incorrect, All you want to do is Polish a bit. Using Circular Motion with light pressure. You don't want to break the Quartz. Also you don't want to distort the grind and Kill The Crystal. I know that some have also used Lead Pencil to Move the Rock's a bit, but that is a good way to Kill the Rock as well. OTOH, It is also possiable to clean the lead off and restore it to life.

Needless to Say you should have a Simple Crystal Test Oscillator and a Freq. Counter.

Want a reaql challange? Open a Defective HC-49 and fix it. Maybe just do it to see how it is assembled. If you can solder one of those little disks in place, you are truly ready for SMD work. :^} Note, the Quartz is etched and Plated. SMD type Silver bearing solder is good here.

Anyone ever diasect a Collins Mechanical Filter? I had a bunch of them at one time, never got around to opening one to see what makes it tick. Too expensive at the time :^}

There you have it lads. Have fun, and send me your old unwanted Quartz.

The Empty FT-243 Holders make Great Coil Forms. That reminds me, I had a thought to Build Various Filters in them for QRP Output Filters.

Small Transmitters like Oner or Twofer can be multiband with a different crystal and a Plug in Pi Net Filter.

SPRAT #58 Pages 9-11 Had a Great "All Bands TX" by John Collins, KN1H

It used only Off the Shelf Computer Crystals. I thought it near perfect solution for Use with My FT-243 Output Tank Filters. Small Toroid Cores and SM Caps and you are in business. I suppose you could get fancy and make mini pcb's Maybe a version with TOKO Coils? SMD? Bet you could squeeze a Oner in one with out much trouble. Now that the Sockets for the FT-243 are getting Scarce, Please be reminded that Octal Tube Sockets will hold 2 Crystals as is. Or if you are handy, you can pull the pins and remount them in your own Lexan forms. Wonder if anyone made Strips of that type and spacing? The Machined Dip Header sockets are great for Wire leaded Crystals.

Time for an Oak Flooring Crystal Display Holder? Cribbage Board Style?

Have fun, GN TU

Sir George, The First :^}

72 ES

QRP DX TU (C) 1986, G. "Danny" Gingell, K3TKS@ abs.net
Former QRP A.R.C.I. Net Manager and Board of Director Member.
Gingell & Company, Ltd. Small Business Telephone Systems
Notary Public and Commercial Locksmith Services (301) 572-6789 Office & Fax
George D. Gingell, Jr. 3052 Fairland Road, Silver Spring, MD 20904-7117
Maryland Milliwatt Club QRP Reference Library, (301) 572-6789 IQRR #1
Maryland Milliwatt Club Founder and Trustee of Club Station - WQ3RP -
Grid Square FM19mb 76.94 W - 39.06 N Silver Spring, MD 20904 QRPea.A.

"72" = "Wishing You Good QRP" (C) 1991 Oleg Borodin, RV3GM

Date: Wed, 26 Sep 2001 04:28:39 -0400
From: "Charles Mabbott" <crmabbott@mediaone.net>
To: <w5yr@att.net>,

"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [107508] RE: More on...not moron...shorthand
Message-ID: <GAECLOGOMILPLBGKKPEGIEFGCNAA.crmabbott@mediaone.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="US-ASCII"
Content-Transfer-Encoding: 7bit

The K was for any station to respond
The KN was for only called station to respond
The TU is Thank You.....

=====

Chuck Mabbott
AA8VS
42 19' 52" N 83 28' 32" W
Grid Square EN82gh
Home Page: <http://aa8vs.dhs.org:81/aa8vs>
FP-113 MI-QRP#1212 Firebirds #2117 SOC #445

-----Original Message-----

From: owner-qrp-l@Lehigh.EDU [mailto:owner-qrp-l@Lehigh.EDU]On
Behalf Of
George, W5YR
Sent: Tuesday, September 25, 2001 11:36 PM
To: Low Power Amateur Radio Discussion
Subject: Re: More on...not moron...shorthand

FrConrad@aol.com wrote:

> The relative benefit of TU as opposed to K or KN eludes me.

It eludes me, too! I cannot see any relevance between "TU" and "K"
or "KN"

What am I missing here? <:}

72/73, George W5YR - the Yellow Rose of Texas QRP-L 1373 NETXQRP 6
Fairview, TX 30 mi NE of Dallas in Collin county EM13qe SOC 262
Amateur Radio W5YR, in the 56th year and it just keeps getting
better!
Icom IC-756PRO #02121 Kachina #91900556 IC-765 #02437

Date: Wed, 26 Sep 2001 06:42:27 -0400
From: Bill Lazure <n2tpa@juno.com>
To: qrp-l@lehigh.edu
Subject: [107509] Correction: Review- JHP Keyboard Keyer
Message-ID: <20010926.064357.-205757.1.n2tpa@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Gang,

A made a grievous oversight on the review I did of the Jackson Harbor Press Island Keyboard Keyer by leaving off the company's URL. Here it is:

<http://jacksonharbor.home.att.net/ham.htm>

Check it out for yourself.

73,

Bill
W2EB

GET INTERNET ACCESS FROM JUNO!
Juno offers FREE or PREMIUM Internet access for less!
Join Juno today! For your FREE software, visit:
<http://dl.www.juno.com/get/tagj>.

Date: Wed, 26 Sep 2001 06:43:02 -0400 (EDT)
From: <baltimoremd@baltimoremd.com>
To: "qrp-L@Lehigh.EDU" <qrp-l@Lehigh.EDU>
Subject: [107510] Q and Z signals - Pro words
Message-ID: <Pine.BSI.4.05L.10109260641170.6484-100000@vh1.min.net>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I've put a rather large list of Qsignals, ARRL Net Signals, Zsignals and prowords on the QRP Web Ring Home Page.

<http://www.zerobeat.net/qrp/>

73
Thom

baltimoremd@baltimoremd.com

Thom LaCosta K3HRN Webmaster

<http://www.baltimoremd.com/>
<http://www.baltimorehon.com/>
<http://www.zerobeat.net>

Baltimore's Home Page
Home of the Baltimore Lexicon
Home of The QRP Web Ring
and Drake Mail List Pages

Date: Wed, 26 Sep 2001 04:18:57 -0700 (PDT)
From: Doug Bankston <dougbankston1@yahoo.com>
To: baltimoremd@baltimoremd.com,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [107511] Re: Q and Z signals - Pro words
Message-ID: <20010926111857.58668.qmail@web11306.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

A complete listing of Q and Z signals can be found in
ACP-131 (Allied Communications Publication #131). As a
recently retired US Coast Guard Communicator, I
remember this publication well, using it on land (NMN,
NMG), but also aboard several ships I served on...
This book is still in use today (But mainly for the
"Z" signals on Secure HF RTTY ship/shore military
comms)..The Z signals are located in the 2nd 1/2
(Back)
of the pub....

I have no idea where to get this pub, but can tell
you that it is unclassified and if someone dug deep
enough, they might be able to scare up a copy....

For all of you ex "Real" communicators. (I mean
Guys who used to do it for a living)
Here's a few "Z" signals that I can remember from my
shipboard days running an ASR-28 Mod TTY Machine on
Secure HF RTTY.

ZUG - Negative
ZUE - Affirmative
ZBK - Refers to the printing accuracy of signals?
ZBZ - Refers to Signal strength
(ZBZ5 ZBK1 report would report strong signals w/
good printing accuracy)
ZDK - Requesting retransmission

Any other ex shipboard ops out there?

Doug Bankston, USCG (Retired 1996)
W4IDW Stafford, VA

USCG RADIOMAN School Petaluma, CA
US Coast Guard Cutter CONFIDENCE Kodiak, Alaska
NMG (Coast Guard Radio Station New Orleans, LA)
US Coast Guard Cutter BIBB New Bedford, MA
NMN (CG Communications Master Station Atlantic
Portsmouth, Virginia)
USS Scott (Coast Guard Law enforcement Detachment,
Commander Caribbean Squadron).
CG District Communications Center, Cleveland, OHIO
US Coast Guard Cutter EAGLE New London, CT

"Underway is the only way"
"Death to Sandcrabs"
(For those of you who don't
Know this term, "Sandcrabs", are how real men in the
US Coast Guard refer to the PussyWhimps that spend
their careers avoiding sea duty... (Hummmmm Maybe
they Should have joined the Air Force?

--- baltimoremd@baltimoremd.com wrote:
> I've put a rather large list of Qsignals, ARRL Net
> Signals, Zsignals
> and prowords on the QRP Web Ring Home Page.
>
> <http://www.zerobeat.net/qrp/>
>
> 73
> Thom
>
> baltimoremd@baltimoremd.com Thom LaCosta
> K3HRN Webmaster
> <http://www.baltimoremd.com/> Baltimore's
> Home Page
> <http://www.baltimorehon.com/> Home of the
> Baltimore Lexicon
> <http://www.zerobeat.net> Home of The
> QRP Web Ring
> and Drake
> Mail List Pages
>

Do You Yahoo!?

Get email alerts & NEW webcam video instant messaging with Yahoo! Messenger.
<http://im.yahoo.com>

Date: Wed, 26 Sep 2001 07:09:19 -0500
From: Steve Muncy <smuncy@mac.com>
To: crmabbott@mediaone.net
Cc: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [107512] Re: More on...not moron...shorthand
Message-ID: <200109261210.f8QCAGH20425@falcon.mail.pas.earthlink.net>
Content-Type: text/plain;
 format=flowed;
 charset=us-ascii
Mime-Version: 1.0 (Apple Message framework v388)
Content-Transfer-Encoding: 7bit

On Wednesday, September 26, 2001, at 03:28 AM, Charles Mabbott wrote:

> The K was for any station to respond
> The KN was for only called station to respond
> The TU is Thank You.....

Absolutely correct....

I've heard some wonder why "KN" even exists -- but I remember a time when three-way CW QSOs were not uncommon. A station could break in to an existing QSO and join in. The "KN" was used to indicate that you didn't want break ins. A "K" meant it was okay to break in. Perhaps it is just me, but I've not heard or participated in a 3-way CW QSO in years so perhaps 3-ways went away with crystal control. There probably isn't as much need for the "KN" as there once was.

Any reference to TU as "to you" is absolutely WRONG and people should not use it that way. For decades CW net control stations have acknowledged checkins by sending "TU AS", meaning "thank you, please standby." If it meant "to you" then "TU AS" would be translated as "to you, please standby" which makes no sense at all. Furthermore, my very old copy of the ARRL Ham Desktop Reference lists the meaning of "TU" as "thank you" along with many other CW abbreviations. I must admit that I had never heard of anyone thinking that TU meant "to you" and I use TU a lot during QSOs -- makes me wonder if some people were confused when I sent it!

I've had several stations in the past year demonstrate that they did not understand the meaning of the prosign AS. I'd get a phone call in the

middle of a QSO and send "AS AS" and would get back something like "??"
or some other reference to show they didn't understand it. That would
force me to send something like "fone call -- stndby" which sure takes a
heck of a lot longer than AS!!!

Steve Muncy, NI5V <mailto:ni5v@arrl.net>
Dalllas, TX USA <http://homepage.mac.com/smuncy/hamradio/
QRP-ARCI #10330 QRP-L #2191 FISTS #7412 QCWA #30705
ARRL Life Member

Date: Wed, 26 Sep 2001 07:17:40 -0500
From: Steve Muncy <smuncy@mac.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [107513] QST Article-Your Novice Accent
Message-ID: <200109261218.f8QCIC08940@falcon.mail.pas.earthlink.net>
Content-Type: text/plain;
format=flowed;
charset=us-ascii
Mime-Version: 1.0 (Apple Message framework v388)
Content-Transfer-Encoding: 7bit

In light of the discussions of abbreviations and prosigns, you might
find interesting the 1956 article in QST entitled "Your Novice Accent."
It was quite a good article, and I re-read it from time to time to
remind myself of some common errors. You may also get a kick out of it
as a good historical piece. You can view it online at:

<http://www.carroll-usa.com/vanity/articles/novacnt.html>

Steve Muncy, NI5V <mailto:ni5v@arrl.net>
Dalllas, TX USA <http://homepage.mac.com/smuncy/hamradio/
QRP-ARCI #10330 QRP-L #2191 FISTS #7412 QCWA #30705
ARRL Life Member

Date: Wed, 26 Sep 2001 12:20:19 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: rwright@soml.com, qrp-l@Lehigh.EDU
Subject: [107514] Re: Oscilloscope Recommendation?
Message-ID: <F21796suzsttXMjCco100009e2d@hotmail.com>
Mime-Version: 1.0

Content-Type: text/plain; format=flowed

>From: Robert Wright <rwright@soml.com>
>Reply-To: rwright@soml.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Oscilloscope Recommendation?
>Date: Tue, 25 Sep 2001 21:49:50 -0700
>
>Dear QRP-L Gang,
>
>As I build more QRP stuff and now just starting K2 #2276, I have been
>thinking about adding an oscilloscope to my basic test equipment (now
>including the fabulous Stinger Singer). Does anyone on the list have a
>recommendation for a good scope for ham use? If used, any suggestions as
>to where to look for one on the web? I searched a few spots and found some
>scopes that cost more than my car.
>
>After reading Paul NA5N's excellent series on their use, it sure would be
>nice to have a small unit for general rig troubleshooting. Am I asking too
>much for a "good" or "small" scope followed by "does not cost an arm and a
>leg?" With the proliferation of microprocessor controlled devices, it
>strikes me that oscilloscopes in general should be getting cheaper not more
>expensive, but that does not seem to be the case. Any help appreciated.
>

Scopes aren't getting cheaper, but you get lots more performance and ease of use for your money. It's like TVs, they cost about the same today as they did years ago.

I use a second-hand Tek 2235 analogue scope. It's rated at 100 MHz, is quite compact and light, and cost me about 350 UK pounds. Something like this is ideal for radio and general electronics.

The latest Tek digital scopes are very nice, and not too expensive.

Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 26 Sep 2001 12:23:37 +0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: w3irz@att.net, qrp-l@Lehigh.EDU
Subject: [107515] Re: FT-243 Xtals
Message-ID: <F207h0Dt9Cz93MgPPf300001f8d@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

You could always solder a modern crystal into the FT-243 holder. It doesn't cost very much to get one made.

Leon

--

Leon Heller, G1HSM Tel: +44 1327 359058 Email:leon_heller@hotmail.com
My web page: http://www.geocities.com/leon_heller
My low-cost Altera Flex design kit: <http://www.leonheller.com>

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 26 Sep 2001 08:19:03 -0500
From: Michael Melland <w9wis@charter.net>
To: leon_heller@hotmail.com,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [107516] RE: Oscilloscope Recommendation?
Message-ID: <NEBBLKAGEKBNGELOFFCAGEHHCPAA.w9wis@charter.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"
Content-transfer-encoding: 7bit

I second that Leon..... I too have a 2235 and love it. Previously I owned a Tek 7603 with plug-ins and I also really liked it.... except for the fact that it was so darned large in my small shop. I wouldn't look at any other scope but a Tektronix. In my opinion, just an opinion, they make the finest scopes. I bought my 2235 from a private party on eBay for \$350. It was a private one owner purchase in 1983. The guy that owned it provided the manuals, two probes, and all his original purchase documentation. He had been a hobbyist and after getting the scope lost interest after he figured out he didn't know how to use it <grin>. It sat in a closet until last year

when he decided to auction it off and I got it. It arrived looking like new. I took it in to have it checked over and have it calibrated at one of our local Cal Labs. When I picked it up the technician told me it was in perfect condition and that every specification was still right in the middle of the calibration ranges and that no adjustments were necessary to provide a certificate of calibration. Not bad for a 17 year old scope !!!

Go Tektronix.... you won't be sorry. Good deals on used scopes can be had from Lew Coppes (Coppes Enterprises), 3518 N Pellegrino Drive, Tucson, AZ 85749, (520)749-8471, cla15@qwest.net

Lew is a great guy, retired engineer. He and his son have a surplus test equipment biz there in Tucson. The son is an instructor in an aviation electronics school out there. One great thing is that their items are provided with a trial period if you don't like a purchase you can return it for your money back. Can't get that at a hamfest or generally off eBay.

--

Michael Melland, W9WIS
QRP-L #1656 QRPARCI #9875
SOC #142 FPQRP #244 IPARC #252
EN54pc Winnebago Cty, Wisc.

Date: Wed, 26 Sep 2001 10:11:09 -0400
From: "Ronald A Pfeiffer" <Ronald_A_Pfeiffer@raytheon.com>
To: neqrp@jonal.net, qrp-l@Lehigh.EDU
Subject: [107517] Results New England QRP SSB NET
Message-ID: <0FE9B3B4AC.BFF70B01-ON85256AD3.004D433C@and.us.ray.com>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

The New England QRP SSB NET meet last night.

Net Control - N1ZSW Ron. Worcester,MA using K2@10W

checkins:

AB8DF	ED	Waterford,MI	Triton IV @10W	Dipole.
K1SWL	Dave	Colchester,CT	FT840@20W	40/20 trap@40ft
K1CL	Chuck	Chelmsford,MA		
AA1MY	Seab	Bethel,ME	708MIIG	88'dipole e/w facing

WA1JXR Greg Lancaster,MA FT101@10W CF 160m Zepp abt 40ft up

There were less checkins than normal. Ed (AB8DF) again had a good signal that all could copy.

Ron - N1ZSW

Date: Wed, 26 Sep 2001 10:37:20 -0400 (EDT)
From: Jim Cotton <jim.cotton@wmich.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [107518] RE: Oscilloscope Recommendation?
Message-ID: <Pine.GSO.4.21.0109261017470.26522-100000@puma.lab2.cc.wmich.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

If you can find a used Tektronix TDS210 scope in the \$750 range they are nice. If you add the FFT module then you also have a HF spectrum analyzer suitable for QRP work. The unit is roughly 12" wide, 6" tall and 5" deep.

There were three TDS210's for sale at the Greyslake, Ill hamfest last weekend. I believe that "Mr. Nicad/ E.H.Yost Co. 1-800-308-4805" had them. I have no relation to this company.

Other reasonable cheap (new) scopes that are available are the Kenwood units advertised in the back of QST.

If you buy a used Tek 2200 series scope and the trace is not thin enough, has focus problems, etc it is common for the 8-10 resistors in the HV divider chain to have changed value and need replacement. Please do not play in the HV section unless you know what you are doing (think safety).

The Tek 7000 series are a nice scope if you have the bench space.

Jim Cotton, N8QOH		jim.cotton@wmich.edu
Western Michigan University		Phone: (616) 387-6421
Network Systems Group		Fax: (616) 387-5473

Date: Wed, 26 Sep 2001 10:47:20 -0400
From: "Ed Tanton" <n4xy@att.net>

To: "'Low Power Amateur Radio Discussion'" <qrp-l@Lehigh.EDU>
Subject: [107519] FW: Aurora Alert -- geomagnetic storm in progress on Sept. 25, 2001 (corrected)
Message-ID: <007101c1469a\$25c8d070\$b00e4d0c@n4xy>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="US-ASCII"
Content-Transfer-Encoding: 7bit

72/73 Ed Tanton N4XY <n4xy@arrl.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Subject: Aurora Alert -- geomagnetic storm in progress on Sept. 25, 2001
(corrected)

Space Weather News for Sept. 25, 2001 <http://www.spaceweather.com>

AURORA ALERT: An interplanetary shock wave spawned by Monday's powerful solar explosion swept past our planet at approximately 2100 UT (2:00 p.m.

PDT) on Tuesday, Sept. 25th. The solar wind velocity soared from 400 km/s to more than 800 km/s in a matter of minutes as the shock wave sped by.

Earth is still inside the resulting high-speed solar stream and auroras are possible tonight even at low latitudes where such displays rarely happen. Sky watchers are advised to look for Northern Lights after local sunset. Local midnight is usually the best time for aurora spotting but if a powerful geomagnetic storm develops bright auroras might be visible at any time of the night.

For details and updates please visit <http://www.spaceweather.com>

Date: Wed, 26 Sep 2001 11:13:32 EDT
From: MertNellis@aol.com
To: qrp-l@lehigh.edu
Subject: [107520] HB Sprint Summary sheet?
Message-ID: <c4.1b4a1eee.28e34a9c@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

I sent this earlier but didn't see it on the list, so here it is again.

Would someone please stear me where I can download a summary sheet for the NJHB Sprint? Not a big score here but will send it in.
Thanks, Mert WOUFO MNQRP

Date: Wed, 26 Sep 2001 10:05:35 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [107521] FS: Computer (cheap)
Message-ID: <5.1.0.14.2.20010926100431.00a6a880@mail.ida.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Need an inexpensive computer for dedicated Packet Radio use? Check out
<http://cgi.ebay.com/aw-cgi/eBayISAPI.dll?ViewItem&item=1278710871>

L.

Date: Wed, 26 Sep 2001 10:03:32 -0600
From: Larry East <w1hue@amsat.org>
To: qrp-l@lehigh.edu
Subject: [107522] FS: Complete FT-301 Station
Message-ID: <5.1.0.14.2.20010926100219.025e0ae0@mail.ida.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Yaesu FT-301 Transceiver and matching FP-301D Power Supply

Transceiver covers 160/80/40/20/15/10M. Output adjustable from essentially zero to 100+ Watts. CW, SSB and FSK. "Fox Tango" narrow CW filter (300Hz @ 6dB down). Rig has been completely aligned and driver transistors replaced. Includes mic, extra power cables and external amp

switch box. Original manual.

Power supply contains speaker and digital clock. Internally switchable for 110VAC or 220VAC operation. Original manual.

\$400.00 plus shipping (units not sold separately).

Yaesu FV-301 External VFO

For use with FT-301 transceiver. Original manual. \$40.00 plus shipping.

Yaesu FO-301 Monitor Scope

Matches FT-301 transceiver, but can be used with any transceiver. Includes two-tone audio oscillator. Original manual. \$75.00 plus shipping.

MFJ-940 "VersaTuner II" ATU

Covers 80-10M (MFJ claims 160M also but that's a stretch). Original manual. \$40.00 plus shipping.

Complete package

All of the above for \$525.00 plus shipping.

Photos can be supplied on request.

Larry, W1HUE/7
w1hue@amsat.org

Date: Wed, 26 Sep 2001 09:12:38 -0700
From: lhlousek <lhlousek@nvhbell.net>
To: QRP-L list <qrp-l@Lehigh.EDU>
Subject: [107523] QRP at Pacificon ???
Message-ID: <009701c146a6\$112f1be0\$650dfea9@nvhbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I believe somebody posted a rundown of the QRP events and program for PACIFICON 2001 on this list. I've seen what is listed on the web site but I recall that there were some other activities like a QRP dinner etc. Does anybody have the info on know where I can look?

Lou W7DZN

Date: Wed, 26 Sep 2001 12:27:22 -0400
From: W2AGN <w2agn@pobox.com>
To: qrp-1@lehigh.edu
Subject: [107524] Delaware QSLs
Message-ID: <01092612272202.23997@njbirdman>
Content-Type: text/plain;
 charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

I am amazed that out of 50 QSOs from Delaware in QRP Afield, I have only received 2 qsls. I thought Delaware was needed more than that. Been waiting to send off replies to K0TK and K5AAR, as I usually print 4 on a page. If anybody else I worked needs DE, let me know.

--

 John L Sielke W2AGN
 w2agn@pobox.com
 http://www.qsl.net/w2agn

Date: Wed, 26 Sep 2001 10:37:26 -0600
From: William R Colbert <w5xe@juno.com>
To: qrp-1@lehigh.edu
Subject: [107525] Re: More on...not moron...shorthand
Message-ID: <20010926.103728.-175851.3.w5xe@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

And there is a proliferation of stations that call CQ and then instead of sending K for a station to answer send KN which means No one should answer except CQ. Again, apparently never taught the proper procedures at their radio class.

Date: Wed, 26 Sep 2001 12:38:41 -0400

From: Bruce Muscolino <w6toy@erols.com>
To: w3irz@att.net
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [107526] Re: FT-243 Xtals
Message-ID: <3BB20491.3290FF01@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Mike,

I agree with you, grinding crystals can be a pleasant and rewarding experience. Just remember, activity really depends on how the crystals were stored, and you must start below the frequency you want to grind them. Some luck can be had by doping the crystal with a lead pencil to lower frequency, but the most you will likely get in 1 kHz!

Also, I used the back of an old china dish when I was a kid. My parents weren't too enthralled about giving me a piece of glass to play with! Remember too, cleanliness is next to godliness when grinding crystals. As you get close to the desired frequency, wash off any grinding compound and assemble the crystal to test it Go slowly...

73

Date: Wed, 26 Sep 2001 12:50:05 -0400
From: Bruce Muscolino <w6toy@erols.com>
To: FrConrad@aol.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [107527] Re: More on...not moron...shorthand
Message-ID: <3BB2073D.631CC90@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Father Conrad,

Well, it really depends on how we teach our newcomers. Just like real language, you get what you teach and reinforce! You should have slammed the dude and shown him what a 360 was!

TU has been in use since the 70's as far as I can remember. It used to be mostly a contest abbreviation. Ut means simply Thank You. It is a sign of politeness in an otherwise dog eat dog situation!

>From personal experience, I have found European hams to be more likely

to use porsigns in QSOs and also to be more polite than US hams. Of course living here we don't often get to work Europeans. The same applies to other nationalities, like e the Asian hams. It is just that I lived in Europe for several years!

We truly influence our language. It is incumbent on all od us to first teach what is necessary, then to explain what we hear, and to constantly correct our newcomers until they use the forms we all want.

73

Date: Wed, 26 Sep 2001 13:01:08 -0400 (EDT)
From: n2go@arrl.net
To: qrp-1@Lehigh.EDU
Subject: [107528] Blue Sky Electronics?
Message-ID: <Pine.LNX.4.21.0109261251560.4489-100000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Anyone on the list have any experience with this company or individual?

Blue Sky Electronics
8721 Santa Monica Blvd
#307
Los Angeles, CA 90069-4507

He uses the name Tom.

He appears to be a crook. Anyone have any dealing with him.
Anyone live near this place? Possibly a phone number for the place. Any ideas on how to get my money back?
Paid with a Money order. I filed a complaint with the California Attorney General. I figure they might be busy with other stuff....
Direct email would be helpful.

73,

Jim (n2go)

Date: Wed, 26 Sep 2001 12:07:02 -0500
From: "Mike Malone" <mmalone@worldlogon.com>

To: <n2go@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [107529] Re: Blue Sky Electronics?
Message-ID: <000701c146ad\$aa2d3320\$4800000a@nationwiderecovery.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I bought and happily built and use one of his Digital Dial kits and it did take a long time to get the kit with zero communication before I got it. It took a lllllooonnnnggg time. I have an email address in the manual at home. I will email you off list tomorrow with it. I really don't believe he is trying to beat you out of 30 or so dollars. Lots on this list have bought and built his kit.

73

Mike Malone

----- Original Message -----

From: <n2go@arrl.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Wednesday, September 26, 2001 12:01 PM

Subject: Blue Sky Electronics?

>

> Anyone on the list have any experience with this company or individual?

>

> Blue Sky Electronics

> 8721 Santa Monica Blvd

> #307

> Los Angeles, CA 90069-4507

>

> He uses the name Tom.

>

> He appears to be a crook. Anyone have any dealing with him.

> Anyone live near this place? Possibly a phone number for the place. Any

> ideas on how to get my money back?

> Paid with a Money order. I filed a complaint with the California Attorney

> General. I figure they might be busy with other stuff....

> Direct email would be helpful.

>

> 73,

>

> Jim (n2go)

>

>

Date: Wed, 26 Sep 2001 08:06:24 -0700
From: lhlousek <lhlousek@nvhbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [107530] Re: More on...not moron...shorthand
Message-ID: <004601c1469c\$cf122580\$650dfea9@nvhbell.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

I had a QSO with an op who ended his over with GA. The first time he did that I waited for him to keep sending and when he didn't I figured he was attempting to end the QSO by saying Good Afternoon so I sent, "are you trying to end the QSO by saying Good Afternoon?" and he said no, he meant "Go Ahead HI HI".

GA is listed as an abbreviation for Go Ahead but using it this context, instead of the usual BK, K or KN, certainly confused me.

I see a few nearly endless lists of Q signals and abbreviations on the web. It may be of academic interest to list all the historic Q sigs and abbreviations but in terms of usefulness today how many ops know them or would learn and remember all of them? A standardized pared-down list (as appears in ARRL publications) is more generally useful in that there is a better chance of ops knowing them. And, it's a lot less daunting for newcomers.

Speaking of newcomers, it is extremely helpful to stick to a standard QSO format for the first few overs in a QSO with a newcomer. I know that when I was struggling with CW all I wanted to hear on that first over was RST, QTH and NAME. Any superfluous words or comments could easily throw me off. Once the initial formalities were over and I could relax a little it was ok loosen up.

I remember on one of my first QSOs the op sent SOLID LOU... and I thought he was sending SO LID LOU... I thought it rather rude that he was calling me a LID, after all, I was only a beginner. Now, at least, when somebody calls me a LID, I've earned it.

Lou W7DZN

.

Date: Wed, 26 Sep 2001 13:23:13 -0400 (EDT)
From: n2go@arrl.net

To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [107531] Re: Blue Sky Electronics?
Message-ID: <Pine.LNX.4.21.0109261322160.4563-1000000@valhalla.v>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Please do not confuse with Blue Sky Engineering. I purchased stuff from him and it was great.....

73,

Jim n2go

On Wed, 26 Sep 2001 n2go@arrl.net wrote:

>
> Anyone on the list have any experience with this company or individual?
>
> Blue Sky Electronics
> 8721 Santa Monica Blvd
> #307
> Los Angeles, CA 90069-4507
>
> He uses the name Tom.
>
> He appears to be a crook. Anyone have any dealing with him.
> Anyone live near this place? Possibly a phone number for the place. Any
> ideas on how to get my money back?
> Paid with a Money order. I filed a complaint with the California Attorney
> General. I figure they might be busy with other stuff....
> Direct email would be helpful.

>
> 73,
>
> Jim (n2go)
>
>

Date: Wed, 26 Sep 2001 12:20:41 -0500
From: Michael Melland <w9wis@charter.net>
To: fpqrp-l@mpna.com, QRP-L <qrp-l@Lehigh.EDU>, njqrp@njqrp.org
Subject: [107532] Computer Monitor Toroids??
Message-ID: <NEBBLKAGEKBNGELOFFCAMEHPCPAA.w9wis@charter.net>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"

Content-transfer-encoding: 7bit

Last week when I was asking around about a possible W2DU bead BALUN application for some surplus toroids I picked up. Along with finding that those I had were not very good for that purpose (they are iron Toroids originally designed for switching power supplies.... flat to 100 MHz but permeability of only 25) ...Someone replied that a good toroid to use for this purpose were those used on computer monitor cables etc. Since then I found out that I have a temporarily nearly inexhaustible supply of them where I work. I've been cutting them of surplus monitors being junked by the university.

Anyone have a guess what material they are likely made from ? They appear to be ferrite. The toroids are all about 1.3" long, .68" wide, .19" thick and with a .38" center hole.

--

Michael Melland, W9WIS
QRP-L #1656 QRPARCI #9875
SOC #142 FPQRP #244 IPARC #252
EN54pc Winnebago Cty, Wisc.

Date: Wed, 26 Sep 2001 11:10:35 -0700
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-l@Lehigh.EDU>
Subject: [107533] Re: QRP at Pacificon ???
Message-ID: <004e01c146b6\$8cff0540\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Lou and others, I was going to start the heavy promotion for Pacificon the week after the Riverside QRP event. I feel that it is rude to promote an event before another is over if you can avoid it. Riverside was Sept. 7, and Pacificon is not until Oct. 19th, so there is plenty of time to beat the drums so to speak. The exception to the above would be when there are two events held close together timeframe wise, such as Atlanticon and Arkiecon.

Ok, back to the subject QRPacificon is gonna be a blast again this year. We have four world famous speakers lined up, Eric Swartz from Elecraft will be talking on High Performance Receiver Design, what the specs really mean. Ed Manual from Houston and the Houston QRP group is coming to talk on QRP Antennas, both home and portable. Bill Jones from Sanger, California who is world famous for his packaging techniques on his home brew gear, is also an

accomplished portable operator. Come hear Bill share some of his secrets on how to be a good qrp operator, have fun, and maintain your sanity (well 2 out of 3 aren't bad, Bill, grin). The Headliner for this year is none other than Jim Cates, WA6GER, who will talk on 42 Years as a QRPer. This is an opportunity to hear one of the icons of QRP, Jim is a wonderfully entertaining guy, and a very good speaker. You will love his presentation.

All of the speakers are on Saturday, but we have plenty of other activities planned.

Friday night: No Host (Vern you gotta pay for your own food) dinner at Fuddrucker's at 6:30 PM.

Great QRPacificon QSO Party 8:00 - 9:00 in the QRP Hospitality room at the Sheraton Hotel in Concord. SSB, CW, NO FM More details later. QRP Guitar Session, bring your own acoustic instruments. No drums, amps, etc. This is a late night event, starting at 11:00 PM.

Saturday Night. QRP Social, and drawing for the prizes in the St. Aidan's Raffle featureing a K2 as the main prize, Red Hot 40, SWL DSW20+, MP-1 with all accessories, plus many, many other prizes. To enter, send a \$5 bill as your ticket to the drawing with your call written on it to:

Doug Hendricks
ATTN: St. Aidan's drawing
862 Frank Ave.
Dos Palos, CA 93620

One prize per ticket, enter as many times as you wish. All proceeds go to St. Aidan's Church (Rev. George Dobbs is the Vicar). All prizes have been donated in full.

Ok, hope this helps. See you there. 72, Doug

Date: Wed, 26 Sep 2001 18:22:07 +0000
From: "Delbert Long" <ad6we@hotmail.com>
To: qrp-1@Lehigh.EDU
Subject: [107534] Re: Shorthand
Message-ID: <F462cv0aGltFBNlJbSo00008b8e@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Well, I had no idea that I would be starting such an interesting thread...

A few comments of my own:

1. I only ever used KN if I was calling a particular station (my brother, Barry Goldwater, or King Hussein for example) and didn't want anyone else to interrupt...or if I was in QSO with one of those guys and didn't want anyone to butt in and try for a rare QSL card from the DX that I got.

2. I almost always use AR at the end of a CQ or when I'm in QSO... maybe unnecessary, but it became a habit ... I thought that it meant that I'm about to end my talk and it's time to turn it over. If you aren't really paying attention you get a warning that I'm almost through ragchewing...something like this:

CQ CQ CQ de AD6WE AD6WE AD6WE AR K

SO HW? BK 2 U AR K

I have been known to use AS for "wait," or BT as "Uhhhh"

(I actually heard someone at the Club Station calling CQ on SSB and turn it over "K Someone, Please).

It was good to start out in a club (W1AF, Cambridge, MA), had someone over my shoulder to tell me I was getting an answer!, that FB meant "Fine Business..."

That everyone was an OM unless she happened to be a YL or XYL...

I used CW almost exclusively from novice days in 1974 until 1979...went quiet for awhile, then mostly SSB and 2m FM until about 1993...very quiet until this year...back to mostly CW QRP and I love it. But the language has been alive in my absence and has obviously changed some.

I'm back and I'm not going anywhere soon!

73, (and 72 if you want)

Delbert Long, AD6WE
2111 Cheyenne Way Unit 9
Fullerton, CA 92833-4912
Grid Square DM13av

Everything should be made as simple as possible, but not simpler. - Albert Einstein

It ain't over 'till it's over. - Yogi Berra

God Bless Us, Everyone. - Tiny Tim

Get your FREE download of MSN Explorer at <http://explorer.msn.com/intl.asp>

Date: Wed, 26 Sep 2001 14:44:47 -0400
From: Ken Newman <N2CQ@dandy.net>
To: qrp-1@Lehigh.EDU
Subject: [107535] Re: HB Sprint Summary sheet?
Message-ID: <3.0.6.32.20010926144447.0081acd0@mail.dandy.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Mert,
The ARCI summary sheet is fine with me. It can be downloaded at:
<http://personal.palouse.net/rfoltz/arci/arcisums.htm>

Thanks for the QSOs!

72 de
Ken Newman - N2CQ == QRP CONTEST CALENDAR ==
Woodbury, NJ <http://www.njqrp.org/data/contesting.html>
FM29jt
N2CQ@ARRL.NET

Date: Wed, 26 Sep 2001 14:45:03 -0400
From: "Jim Stamper" <jstamper@shentel.net>
To: <smuncy@mac.com>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [107536] Re: QST Article-Your Novice Accent
Message-ID: <002c01c146bb\$600bcfa0\$5d3a6fcc@jstamper>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I remember reading this article about the time I got my novice ticket in 1956. What a pleasure seeing it again.

It did answer one question for me--that is why don't I remember ever using KN at the end of a transmission in those days? (It was seldom done back then.) Thought maybe I was having a senior moment.

jim-
KG4LDY

----- Original Message -----

From: "Steve Muncy" <smuncy@mac.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, September 26, 2001 8:17 AM
Subject: QST Article-Your Novice Accent

> In light of the discussions of abbreviations and prosigns, you might
> find interesting the 1956 article in QST entitled "Your Novice Accent."
> It was quite a good article, and I re-read it from time to time to
> remind myself of some common errors. You may also get a kick out of it
> as a good historical piece. You can view it online at:

>
> <http://www.carroll-usa.com/vanity/articles/novacnt.html>
>

> -----
> Steve Muncy, NI5V <mailto:ni5v@arrl.net>
> Dalllas, TX USA <<http://homepage.mac.com/smuncy/hamradio/>>
> QRP-ARCI #10330 QRP-L #2191 FISTS #7412 QCWA #30705
> ARRL Life Member
>

Date: Wed, 26 Sep 2001 11:52:34 -0700
From: "John Moriarity" <k6qq@hdo.net>
To: <ad6we@hotmail.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [107537] Re: Shorthand
Message-ID: <002f01c146bc\$680c0a20\$f8414cd1@k6qq>

> 2. I almost always use AR at the end of a CQ ...

> CQ CQ CQ de AD6WE AD6WE AD6WE AR K
>
> SO HW? BK 2 U AR K

Well, when I was taught procedure, I was told that
"only Noah used an ARK".

AR means "end of message", and K is an "invitation to
transmit".

AR is meaningless at the end of a CQ, because you haven't sent a message yet (CQ doesn't count).

I was taught that the proper use was like this:

CQ CQ CQ DE K6QQ K6QQ K

... so back to u om AR AD6WE DE K6QQ K.

Of course this was back some fifty years ago, and like everything else I've learned, is probably wrong now.

73,

John, K6QQ
Alturas, CA, at the corner of 299 & 395.

Date: Wed, 26 Sep 2001 14:27:43 -0500
From: "Mike Malone" <mmalone@worldlogon.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [107538] Re: Blue Sky Electronics is not BLUE SKY ENGINEERING
Message-ID: <000b01c146c1\$51009670\$4800000a@nationwiderecovery.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Sorry to K1MG and Blue Sky Engineering for my confusing him with Blue Sky Electronics... no affiliation of the two. Ok well, back to my lurk mode and putting the asbestos shield up. Oh BTW Mike K1MG, I still love my digidial/clock.

73
KD5KXF

Date: Wed, 26 Sep 2001 12:29:53 -0700
From: lhlousek <lhlousek@nvhbell.net>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [107539] Re: Shorthand
Message-ID: <01fd01c146c1\$9ded6da0\$650dfea9@nvhbell.net>
MIME-version: 1.0

Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

I find that many of the accomplished ops that I enjoy chewing the rag wid simply end their over with BK or, if needed, my call DE their call K, or simply DE their call K. No SO HW? or BK 2 U or anything else. Very clean. "SO HW? ES BK TU [AR]" seems awkward after the first couple of overs and is pretty much meaningless anyway...not that there is a lot of significance in anything else I send.

Lou W7DZN

Date: Wed, 26 Sep 2001 16:18:54 -0400
From: "ZOOM" <kandrparker@sympatico.ca>
To: <n2go@arrl.net>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [107540] Re: Blue Sky Electronics?
Message-ID: <011401c146c8\$8668c060\$99a4fea9@robparke>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well Well look what I found! Some interesting reading!!!

<http://www.docdebug.com/dirtylaundry.htm>

Regards,
Robert
VE3RPF

----- Original Message -----

From: <n2go@arrl.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, September 26, 2001 1:01 PM
Subject: Blue Sky Electronics?

>
> Anyone on the list have any experience with this company or individual?
>
> Blue Sky Electronics
> 8721 Santa Monica Blvd

> #307
> Los Angeles, CA 90069-4507
>
> He uses the name Tom.
>
> He appears to be a crook. Anyone have any dealing with him.
> Anyone live near this place? Possibly a phone number for the place. Any
> ideas on how to get my money back?
> Paid with a Money order. I filed a complaint with the California Attorney
> General. I figure they might be busy with other stuff....
> Direct email would be helpful.
>
> 73,
>
> Jim (n2go)
>
>

Date: Wed, 26 Sep 2001 16:56:14 -0400
From: "Lee S. Mairs" <lmairs@cox.rr.com>
To: <kandrparker@sympatico.ca>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [107541] Re: Blue Sky Electronics?
Message-ID: <007a01c146cd\$af334f60\$6401a8c0@cox.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Isn't America just a wonderful place? Here are all these complaints about
being ripped off all from folks trying buy equipment/material to rip off the
Direct TV folks.

73 de Lee, KM4YY

Economic power is exercised by means of a positive, by offering men a
reward, an incentive, a payment, a value; political power is exercised
by means of a negative, by the threat of punishment, injury,
imprisonment, destruction. The businessman's tool is values; the
bureaucrat's tool is fear.

--Ayn Rand

----- Original Message -----

From: "ZOOM" <kandrparker@sympatico.ca>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, September 26, 2001 4:18 PM

Subject: Re: Blue Sky Electronics?

> Well Well look what I found! Some interesting reading!!!
>
> <http://www.docdebug.com/dirtylaundry.htm>

Date: Wed, 26 Sep 2001 18:36:46 -0400
From: Rick McNelly <rmcnelly@home.com>
To: <Ronald_A_Pfeiffer@raytheon.com>,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [107542] Re: Results New England QRP SSB NET
Message-ID: <B7D7D0BE.1D702%rmcnelly@home.com>
Mime-version: 1.0
Content-type: text/plain; charset="US-ASCII"
Content-transfer-encoding: 7bit

Sorry I couldn't make it this time Ron, The FT817 is off to get the One Board Filter (OBF) installed. We'll see you next week.

72/73,

--Rick, KE4IZH
FT817/Sierra
KLR650-A14
'01 Blast
Chesapeake, Va

End of QRP-L Digest 2324

